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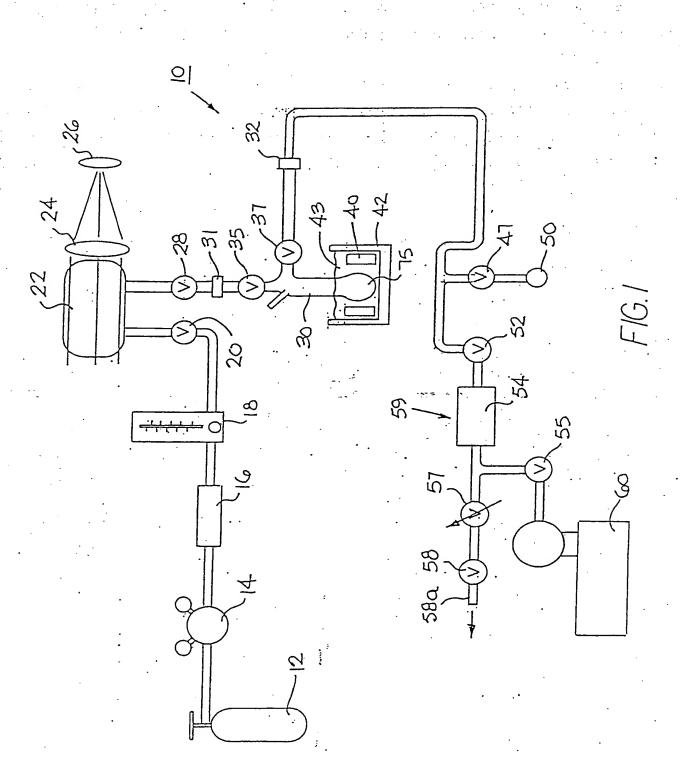
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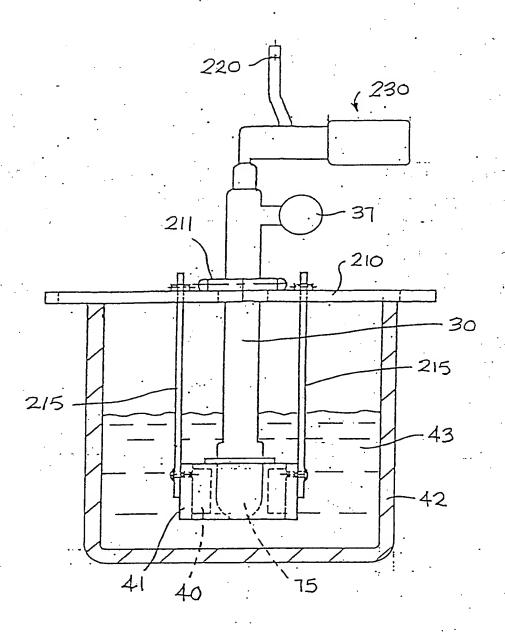
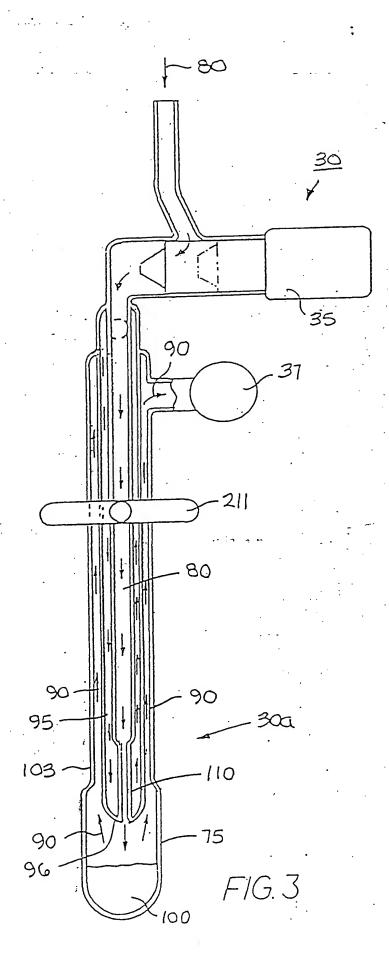
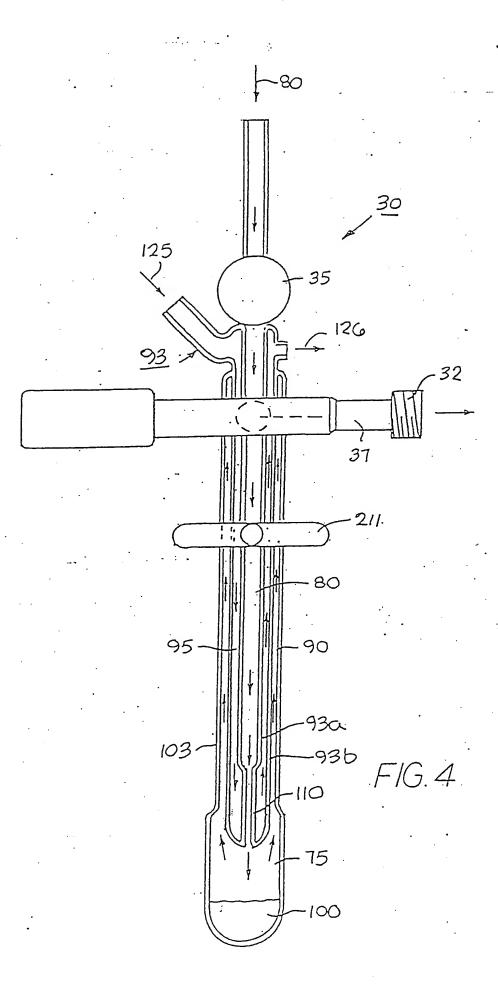
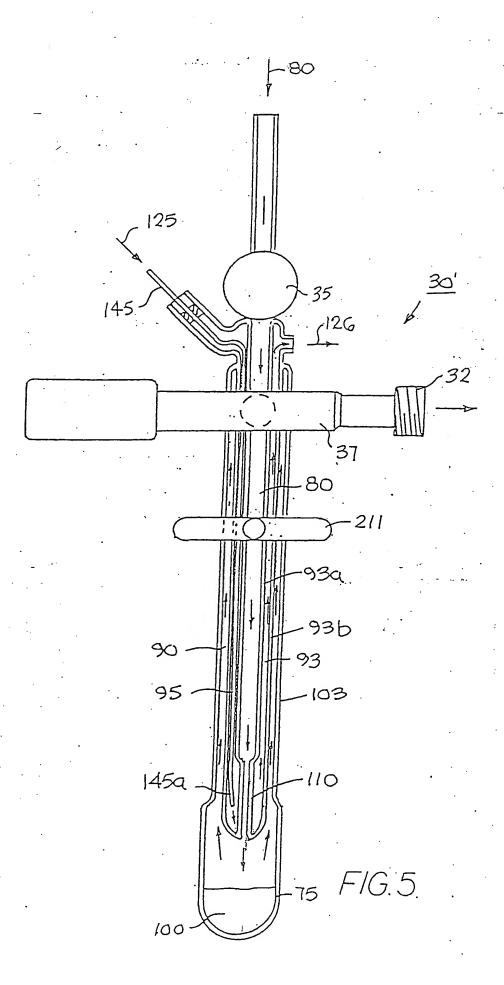
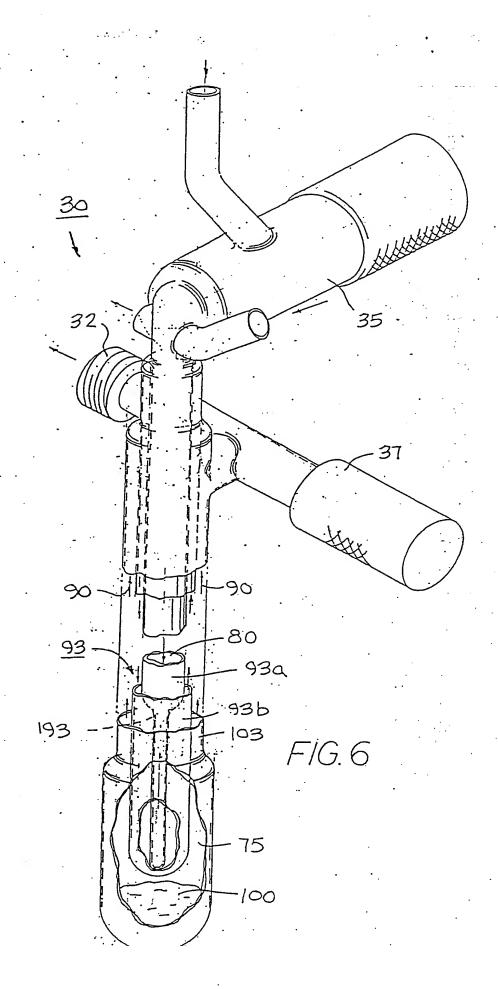


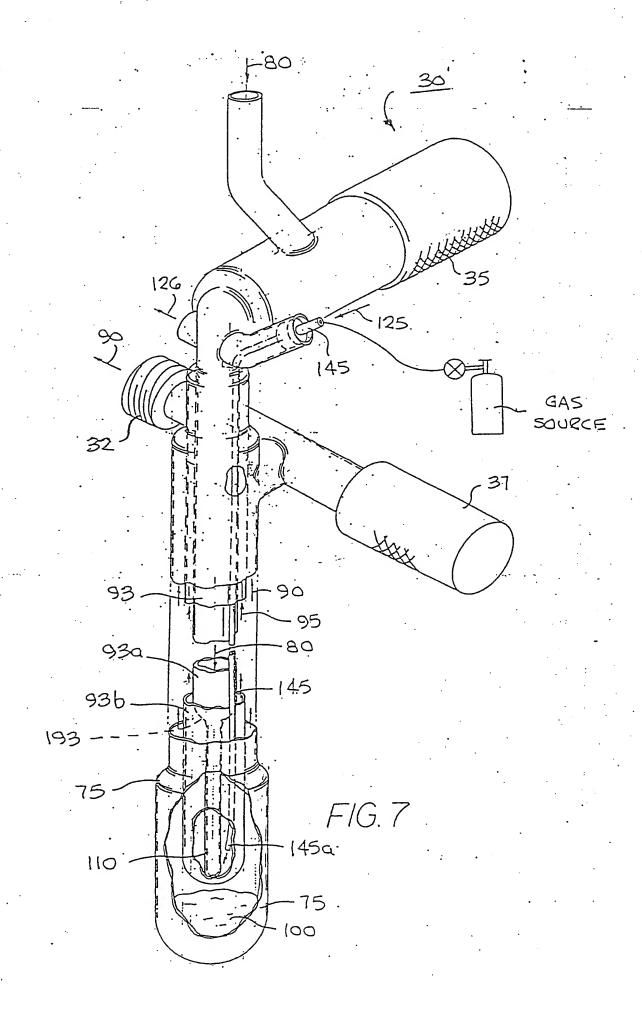
FIG. 2

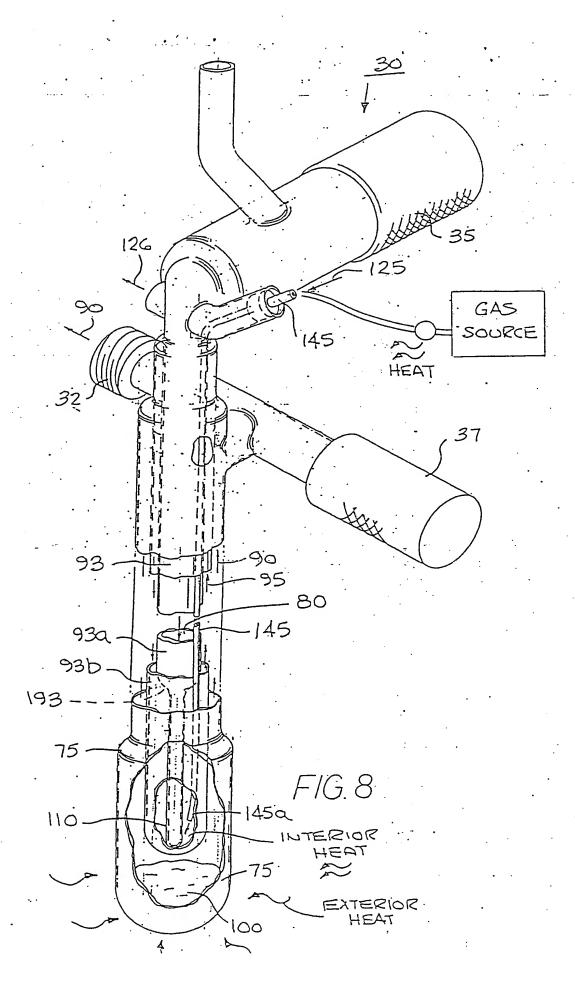












Directing a gas mixture comprising a polarized gas into a collection path. 900 Receiving polarized gas into an accumulator in the collection path, the accumulator having an inlet channel, a collection reservoir, and an exit channel. 910 Exposing the collection reservoir of the accumulator to temperatures below the freezing point of the polarized noble gas. 920 Trapping the polarized noble gas in a substantially frozen state in the collection reservoir. 930 Routing the remainder of the gas mixture into the exit channel. 940 Heating a portion of the inlet channel in the accumulator to facilitate the flow of the gas mixture therethrough.

FIG. 9

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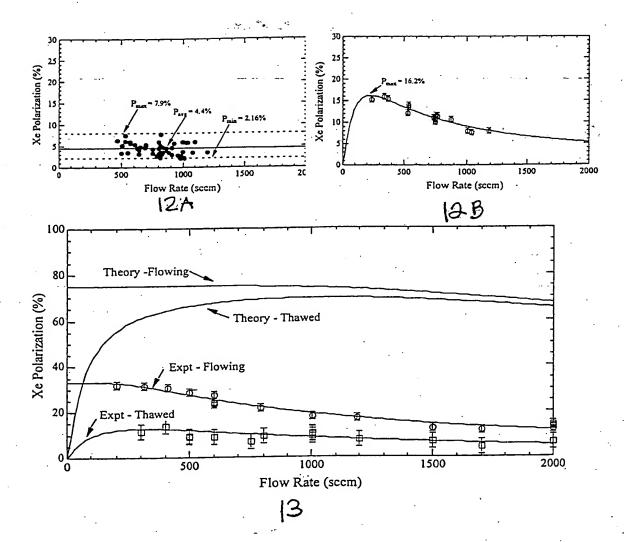
Providing a sealed container having an interior flow path and a collection chamber, the collection chamber holding polarized frozen gas therein. 1000 Exposing the frozen polarized gas to a magnetic field. 1005 Heating a portion of the interior flow path adjacent the collection chamber. 1010 Heating the exterior of the sealed container. -1020 Liquifying the frozen polarized noble gas during said heating steps such that a minimum of the polarized gas transitions to the gaseous phase. 1030 Releasing the gas pressure in the sealed container as soon as the liquid state is achieved.

1040

FIG. 10

Providing a magnetic field. 1100 Freezing a polarized noble gas in the presence of the magnetic field. 1110 Sealing a quantity of the polarized gas in a containment device. Thawing the polarized gas in the presence of the magnetic field. 1120 Converting a substantial quantity of the frozen gas directly into the liquid phase in the sealed container during the thawing step.

FIG. 11



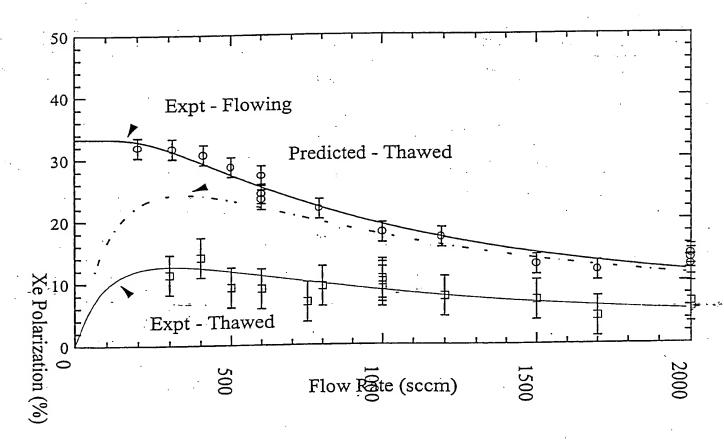


Fig.13A